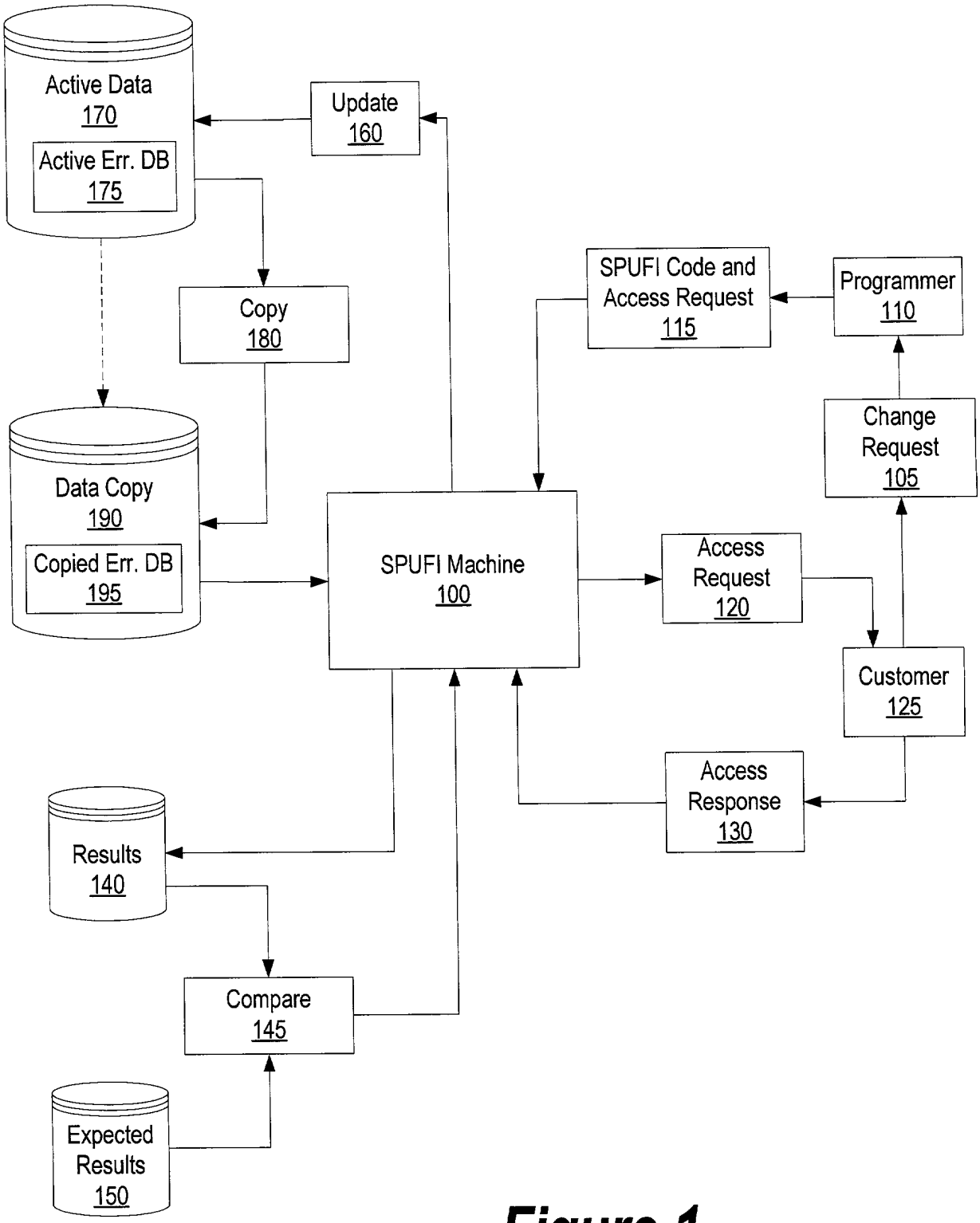
Active Data
170
Active Err. DB
175
Update
160
Copy
180
SPUFI Code and
Access Request
115
Programmer
110
Change
Request
105
Data Copy
190
Copied Err. DB
195
SPUFI Machine
100
Access
Request
120
Customer
125
Access
Response
130
Results
140
Compare
145
Expected
Results
150

Figure 1

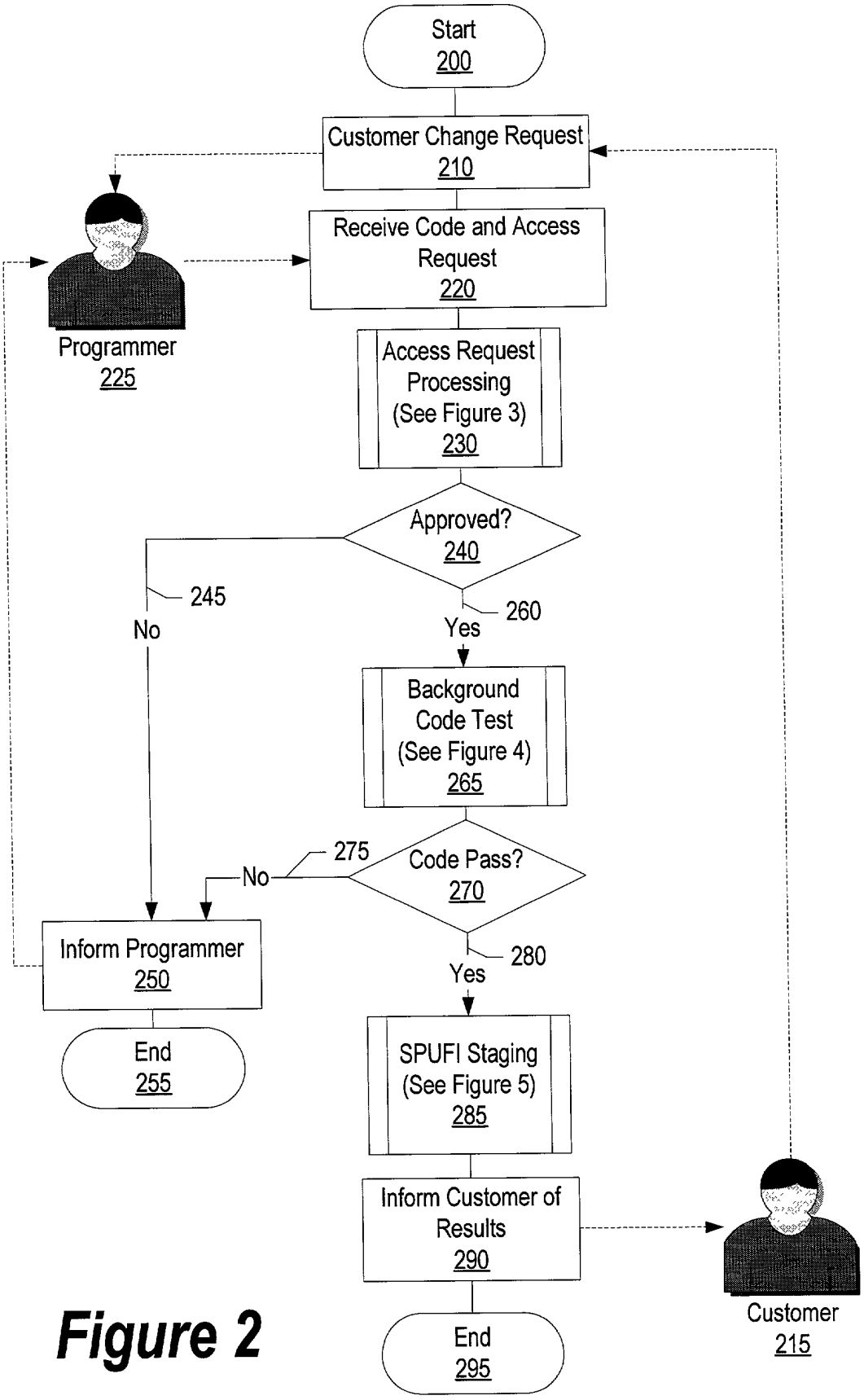
Start
200
Customer Change Request
210
Receive Code and Access Request
220
Programmer
225
Access Request Processing
(See Figure 3)
230
Approved?
240
245
No
260
Yes
Background Code Test
(See Figure 4)
265
Code Pass?
270
275
No
280
Yes
Inform Programmer
250
End
255
SPUFI Staging
(See Figure 5)
285
Inform Customer of Results
290
End
295
Customer
215

Figure 2

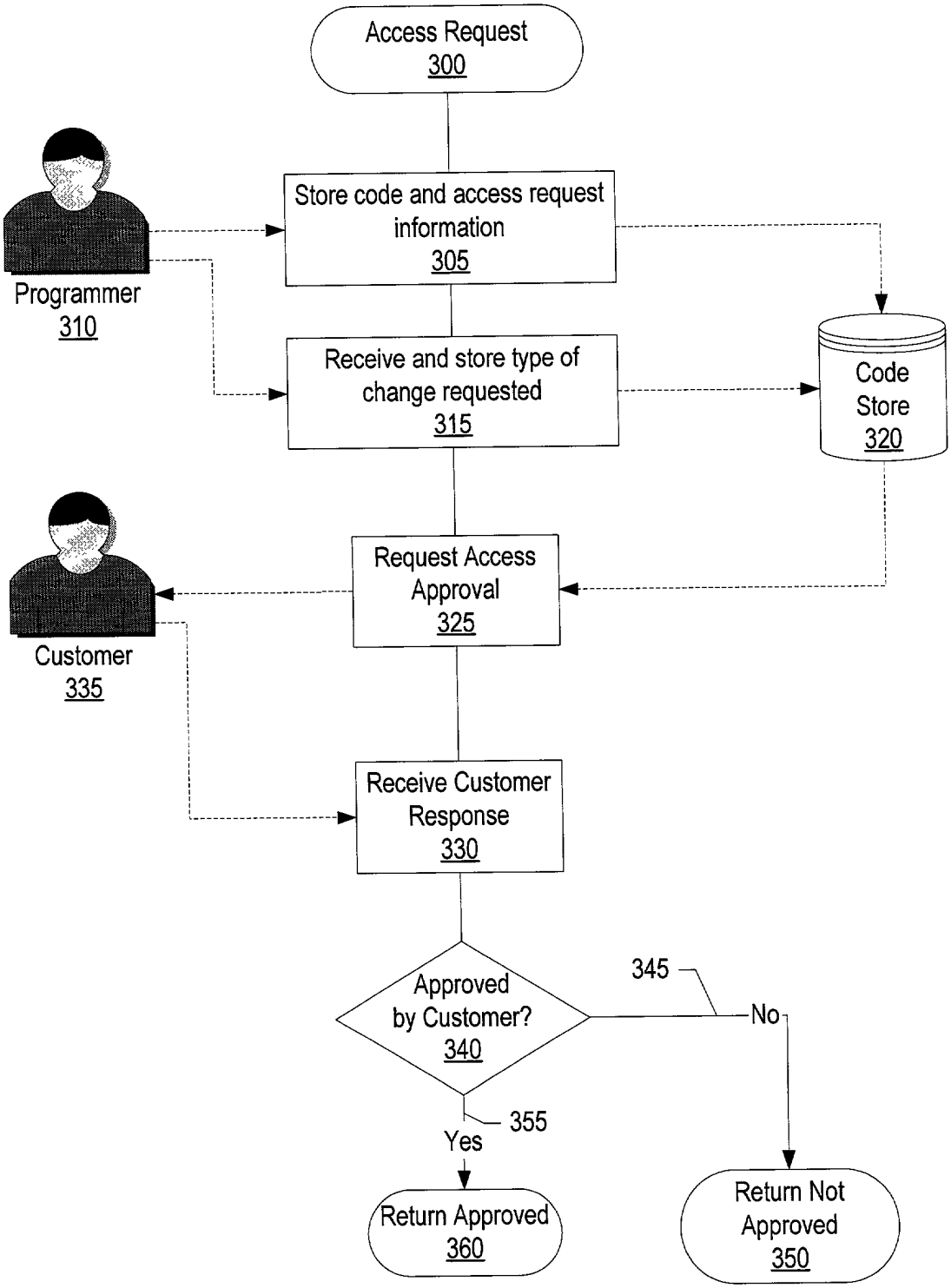
Access Request
300
Store code and access request information
305
Programmer
310
Receive and store type of change requested
315
Code Store
320
Request Access Approval
325
Customer
335
Receive Customer Response
330
Approved by Customer?
340
345
No
355
Yes
Return Approved
360
Return Not Approved
350

Figure 3

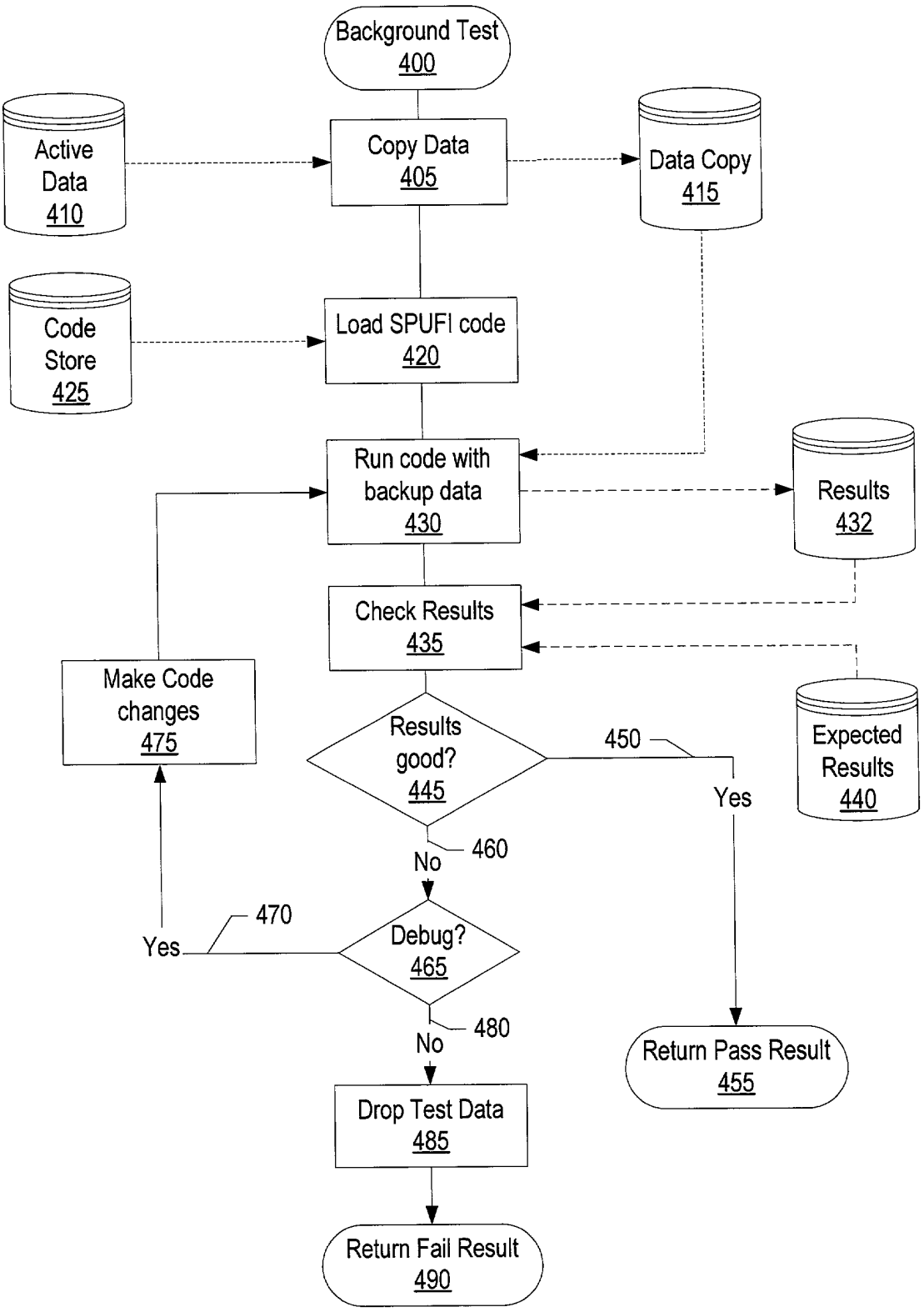
Background Test
400
Active Data
410
Copy Data
405
Data Copy
415
Code Store
425
Load SPUFI code
420
Run code with backup data
430
Results
432
Check Results
435
Make Code changes
475
Results good?
445
450
Yes
Expected Results
440
No
460
Yes
470
Debug?
465
No
480
Return Pass Result
455
Drop Test Data
485
Return Fail Result
490

Figure 4

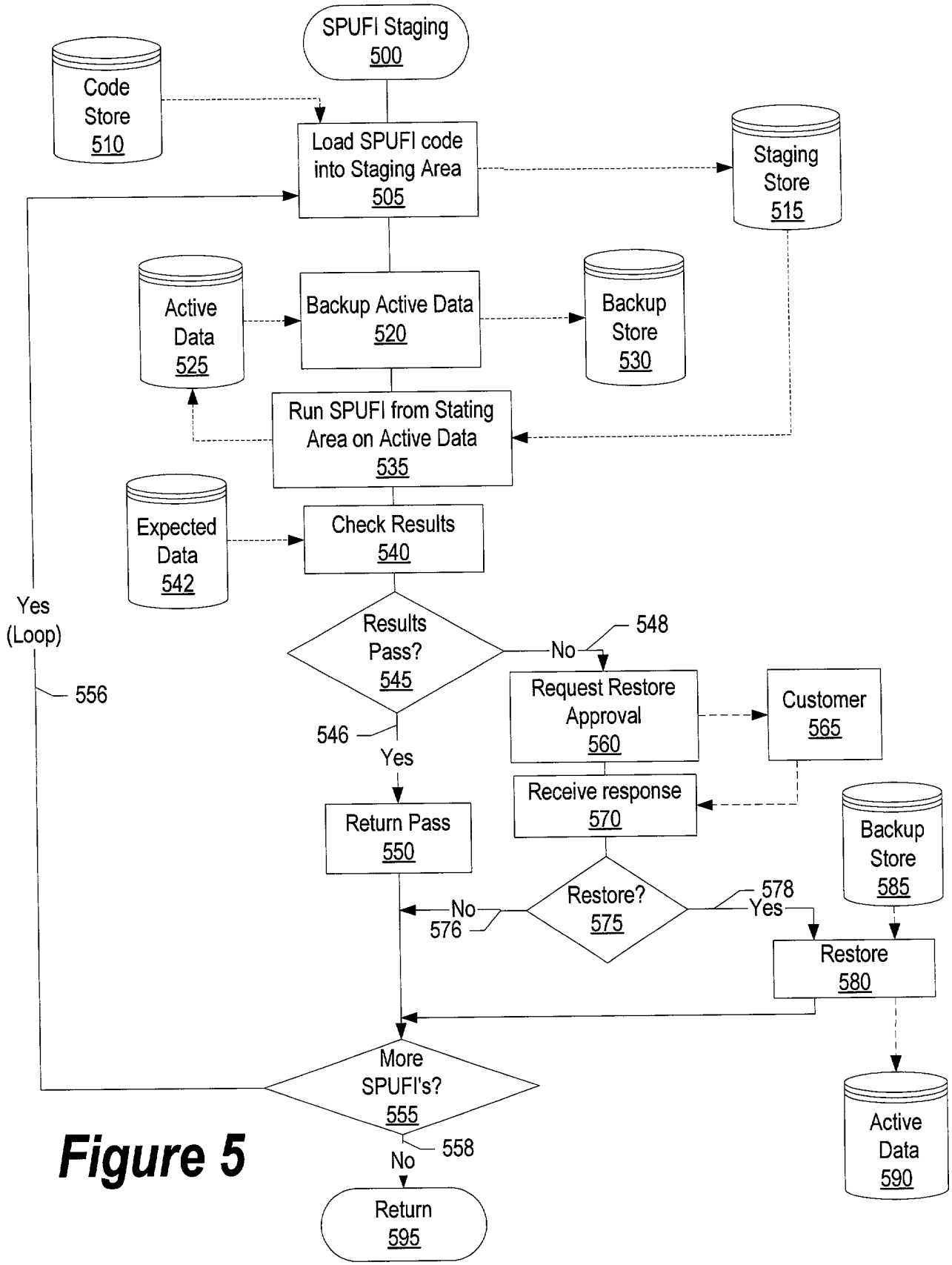
SPUFI Staging
500
Code Store
510
Load SPUFI code into Staging Area
505
Staging Store
515
Active Data
525
Backup Active Data
520
Backup Store
530
Run SPUFI from Stating Area on Active Data
535
Expected Data
542
Check Results
540
Yes
(Loop)
556
Results Pass?
545
No
548
Request Restore Approval
560
Customer
565
546
Yes
Return Pass
550
Receive response
570
Backup Store
585
Restore?
575
No
576
578
Yes
Restore
580
More SPUFI's?
555
No
558
Return
595
Active Data
590

Figure 5

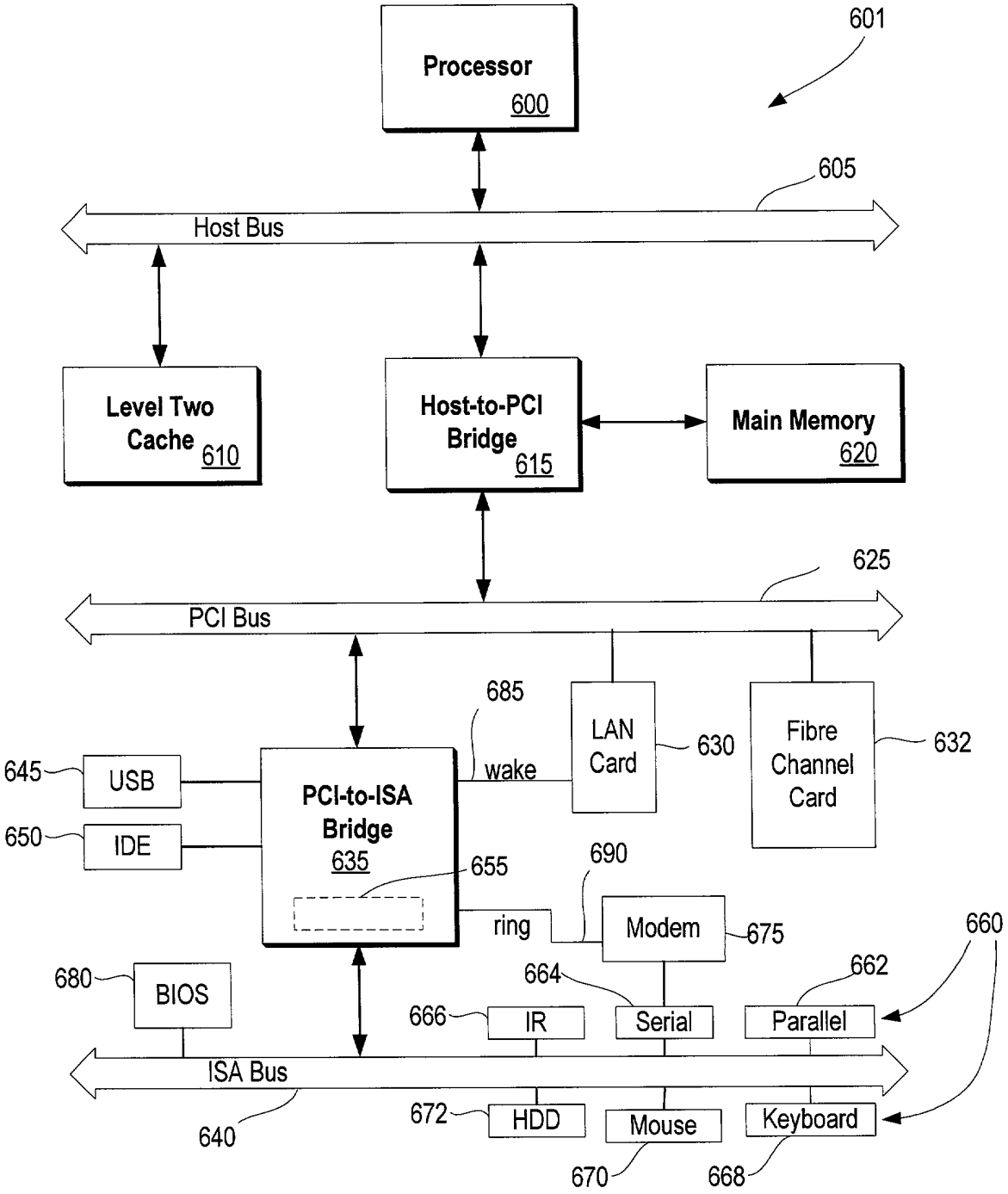
601
Processor
600
605
Host Bus
Level Two
Cache
610
Host-to-PCI
Bridge
615
Main Memory
620
625
PCI Bus
685
LAN
Card
630
Fibre
Channel
Card
632
645
USB
wake
650
IDE
PCI-to-ISA
Bridge
635
655
690
ring
Modem
675
660
680
BIOS
664
662
666
IR
Serial
Parallel
ISA Bus
672
HDD
Mouse
Keyboard
640
670
668

Figure 6